



POLARIS

HIGH ACCURACY GNSS ORIENTATION AND NAVIGATION SYSTEM



POLARIS is a navigation and orientation system based on GNSS attitude determination and MEMS inclination sensors. POLARIS delivers real time high quality navigation solution to a wide variety of platforms.

MAIN ADVANTAGES & FEATURES



High Precision GNSS
6DOF navigation system



Extra rugged and
robust design for
maximum durability



Dual GNSS platform
- Operates with both
GPS and GLONASS



Up to 1mRad dynamic
north direction accuracy



Unaffected by magnetic
interferences



Fully complies with
MIL-STD 810G, MIL-STD
461F, MIL-STD 1275B



TECHNICAL SPECIFICATIONS

Position Accuracy*:	1.5 m (RMS) / 0.6 m SBAS	
	Baseline	Accuracy (1 σ)
	0.5m	0.6 deg
	1m	0.3 deg
	2m	0.056 deg
Pitch / Roll (RMS):	0.15 deg Both Axis within $\pm 20^\circ$	
GNSS Constellations:	GPS + GLONASS	
GNSS Frequency:	L1 GPS + GLONASS	
Data Rate:	1-10Hz (optional 20Hz)	
TTFB (cold/warm Start):	<50 sec / <35 sec	
Power Consumption	150mA @ 24V	
Communication:	RS232 / RS422	
Connector:	D38999/24WC35PA / 2X TNC	
Power	External 14V-36VDC MIL-STD 1275B	
Weight	1 Kg	
Environmental	-32°C to +55°C Operation	
Full MIL-STD:	MIL-STD 810F / MIL-STD 461F	

* Clear view of the sky within $<5^\circ$ Pitch Roll

This publications is for general information only, Asio Technologies reserves the right to alter the product specifications without prior notice